

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/053441

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04B10/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04B H04J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 317 255 B1 (FATEHI MOHAMMAD TAGHI ET AL) 13 November 2001 (2001-11-13) cited in the application	1-3,9,11
A	the whole document	4-8,12
Y	US 6 111 676 A (LEMUS ET AL) 29 August 2000 (2000-08-29) column 1, line 39 - column 2, line 64 column 3, line 46 - column 6, line 62	1-3,9,11
A	US 6 301 036 B1 (SPENCER GEOFFREY) 9 October 2001 (2001-10-09) column 1, line 5 - line 20 column 3, line 18 - line 40 column 4, line 5 - column 5, line 52 figures 2-4	1-12
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

17 March 2005

Date of mailing of the international search report

30/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Vaquero, R

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/053441

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 199 33 268 A1 (SIEMENS AG) 25 January 2001 (2001-01-25) column 1, line 12 - column 2, line 52 figure 1 -----	1-12
A	EP 1 241 805 A (FUJITSU LIMITED) 18 September 2002 (2002-09-18) paragraph '0004! - paragraph '0011! paragraph '0019! - paragraph '0022! paragraph '0035! - paragraph '0043! paragraph '0061! figure 2 -----	1-12

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/053441

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6317255	B1	13-11-2001	CA 2266289 A1 EP 0954125 A2 JP 2000013328 A	28-10-1999 03-11-1999 14-01-2000
US 6111676	A	29-08-2000	NONE	
US 6301036	B1	09-10-2001	CN 1207840 A DE 69613399 D1 DE 69613399 T2 EP 0868793 A1 WO 9723965 A1 JP 2000506602 T	10-02-1999 19-07-2001 18-04-2002 07-10-1998 03-07-1997 30-05-2000
DE 19933268	A1	25-01-2001	WO 0106681 A1	25-01-2001
EP 1241805	A	18-09-2002	JP 2002280978 A EP 1241805 A2 US 2002131099 A1	27-09-2002 18-09-2002 19-09-2002